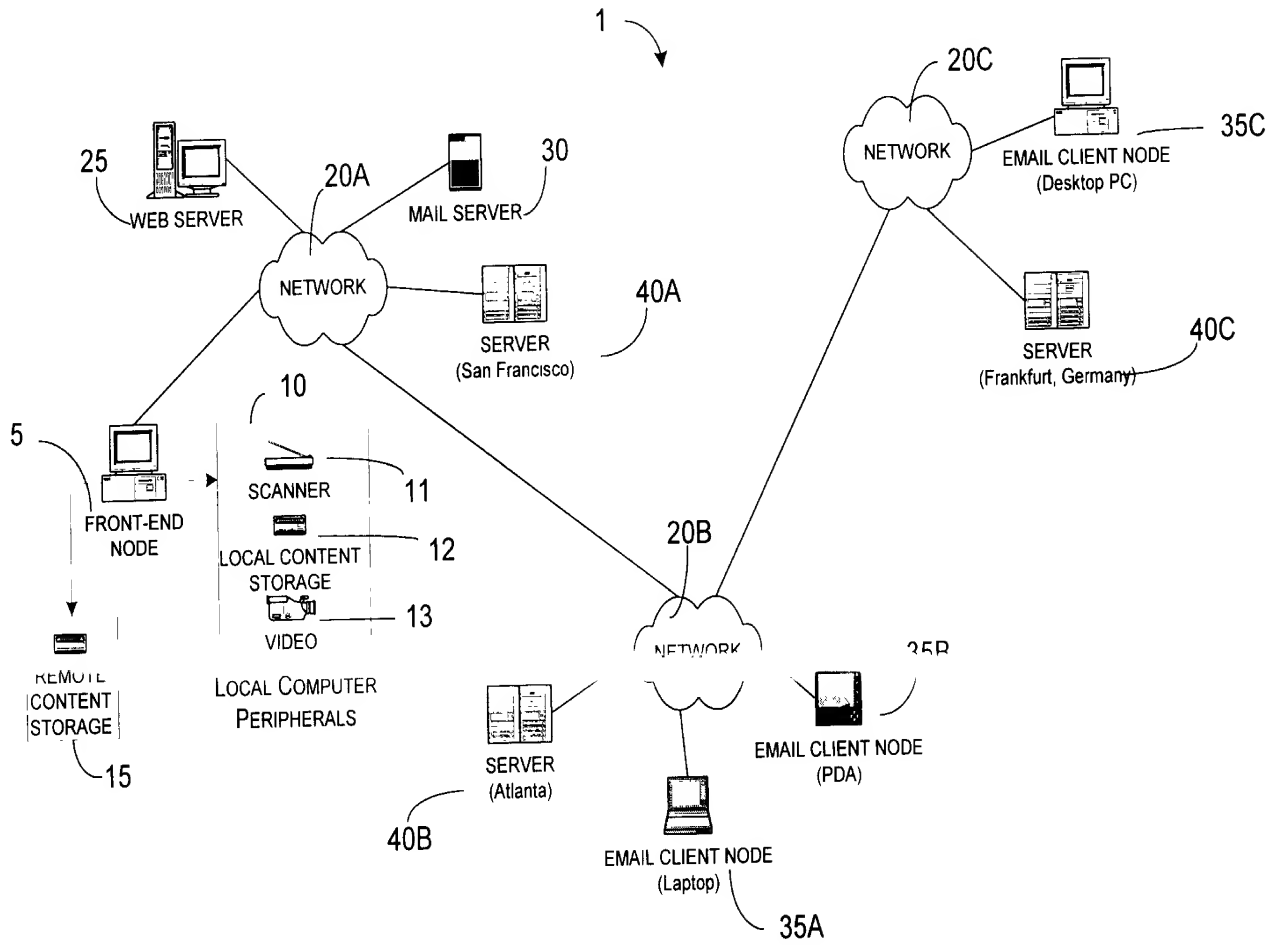
SCANNED,#

FIG. 1A



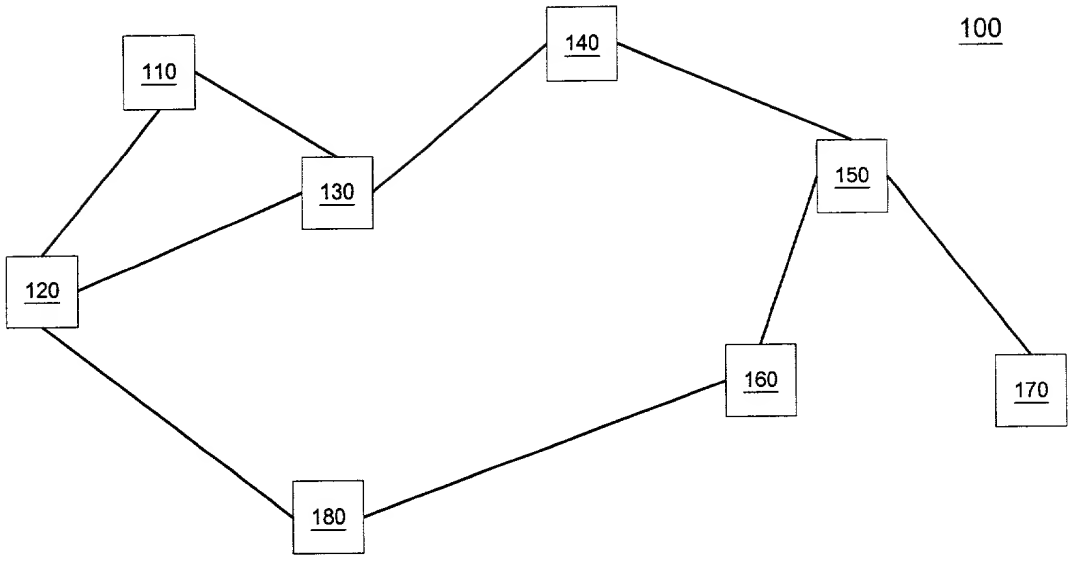



Figure 1B

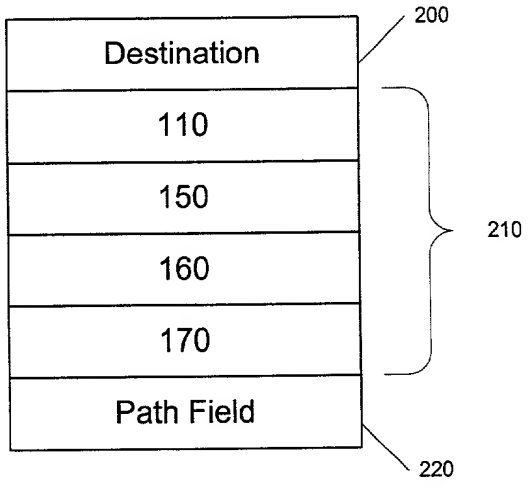



Figure 2

300

| Dynamic Routing Table | | |
|---|---|---|
| Route | Hops | Goodness |
| 110 via 120 | 2 | .1 |
| 120 via 120 | 1 | .6 |
| 130 via 120 | 2 | .4 |
| 140 via 120 | 3 | .8 |
| 150 via 120 | 4 | .2 |
| 160 via 120 | 5 | .1 |
| 170 via 120 | 5 | .9 |
| 110 via 160 | 5 | 1 |
| 120 via 160 | 5 | .3 |
| 130 via 160 | 4 | 0 |
| 140 via 160 | 3 | .2 |
| 150 via 160 | 2 | .5 |
| 160 via 160 | 1 | .5 |
| 170 via 160 | 3 | .3 |

Figure 3

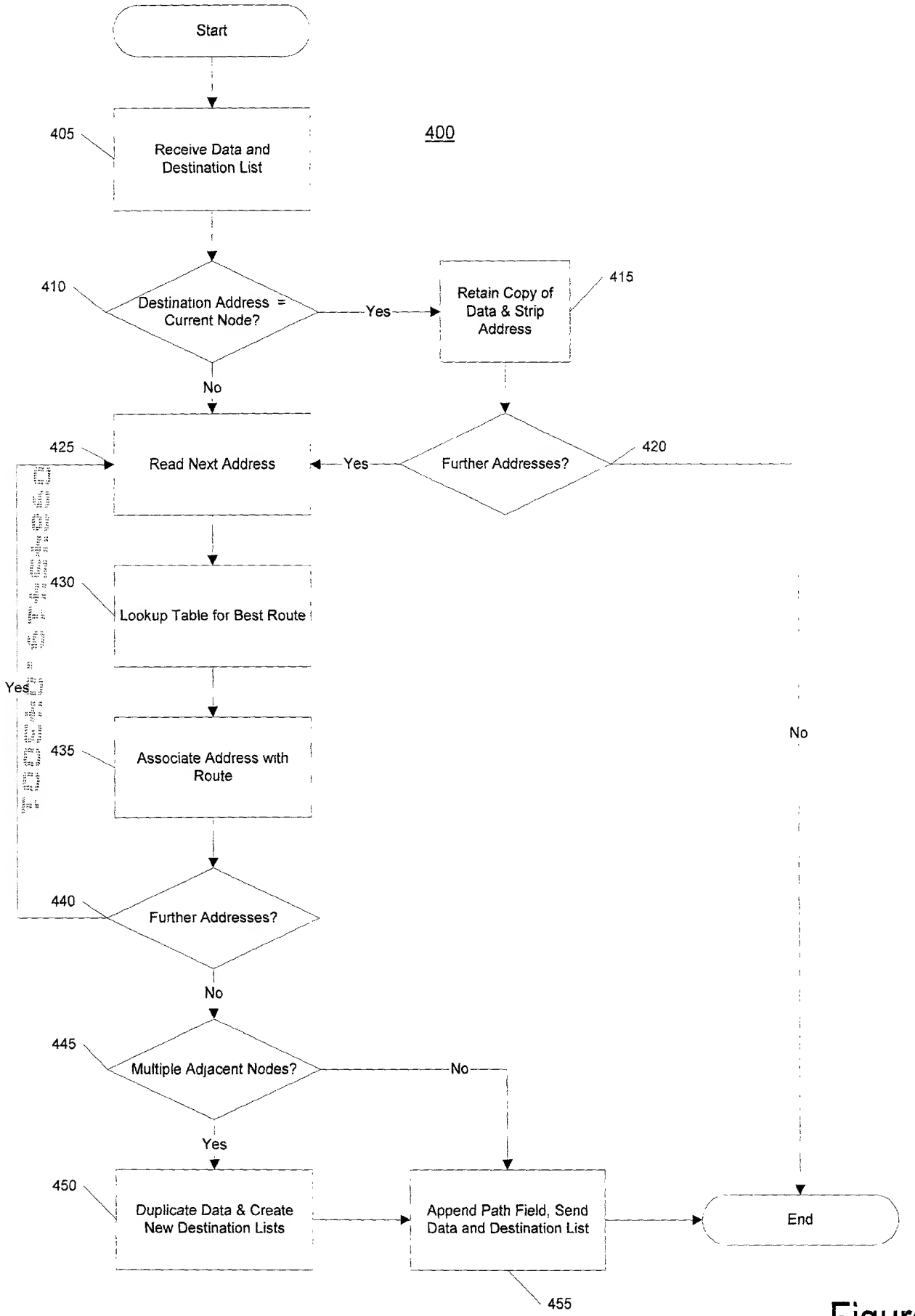

Start
400
405
Receive Data and Destination List
410
Destination Address = Current Node?
Yes
415
Retain Copy of Data & Strip Address
No
425
Read Next Address
Yes
Further Addresses?
420
430
Lookup Table for Best Route
Yes
435
Associate Address with Route
440
Further Addresses?
No
445
Multiple Adjacent Nodes?
No
Yes
450
Duplicate Data & Create New Destination Lists
Append Path Field, Send Data and Destination List
455
No
End

Figure 4

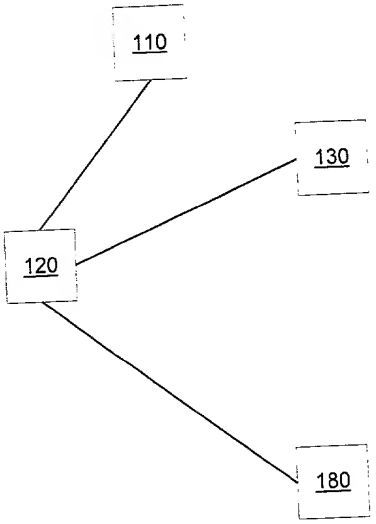



Figure 5A

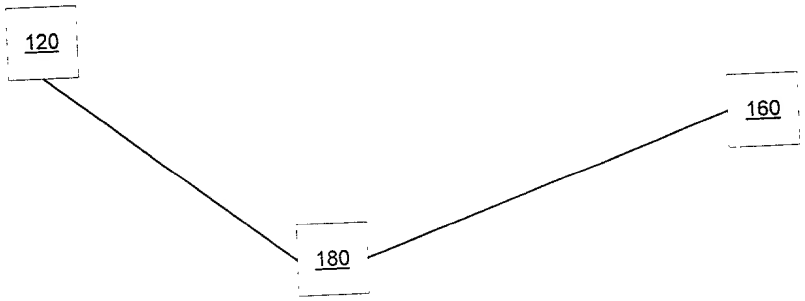



Figure 5B

610

| Dynamic Routing Table | | |
|---|---|---|
| Route | Hops | Goodness |
| 110 via 110 | 1 | .1 |
| 130 via 130 | 1 | .2 |
| 180 via 180 | 1 | .1 |

Figure 6A

620

| Dynamic Routing Table | | |
|---|---|---|
| Route | Hops | Goodness |
| 120 via 120 | 1 | .6 |
| 160 via 160 | 1 | .5 |

Figure 6B

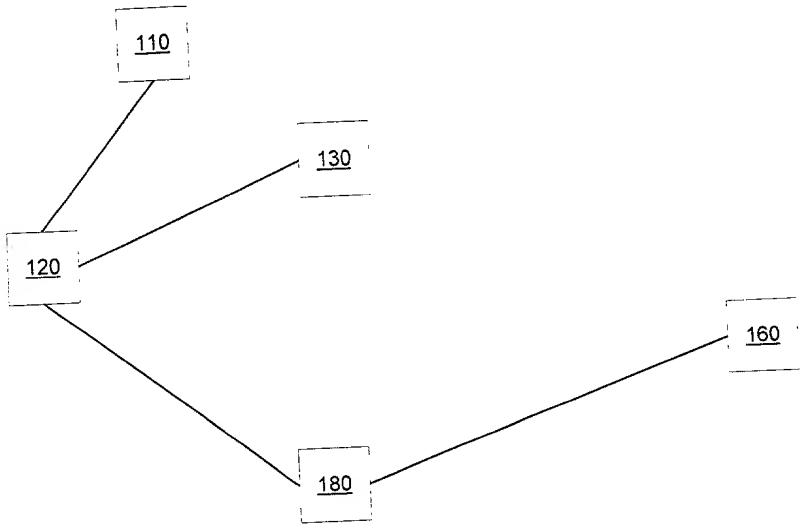



Figure 7

610

| Dynamic Routing Table | | |
|---|---|---|
| Route | Hops | Goodness |
| 110 via 110 | 1 | .1 |
| 130 via 130 | 1 | .2 |
| 180 via 180 | 1 | .1 |
| 160 via 180 | 2 | .6 |

Figure 8A

620

| Dynamic Routing Table | | |
|---|---|---|
| Route | Hops | Goodness |
| 120 via 120 | 1 | .1 |
| 160 via 160 | 1 | .5 |
| 110 via 120 | 2 | .2 |
| 130 via 120 | 2 | .3 |

Figure 8B

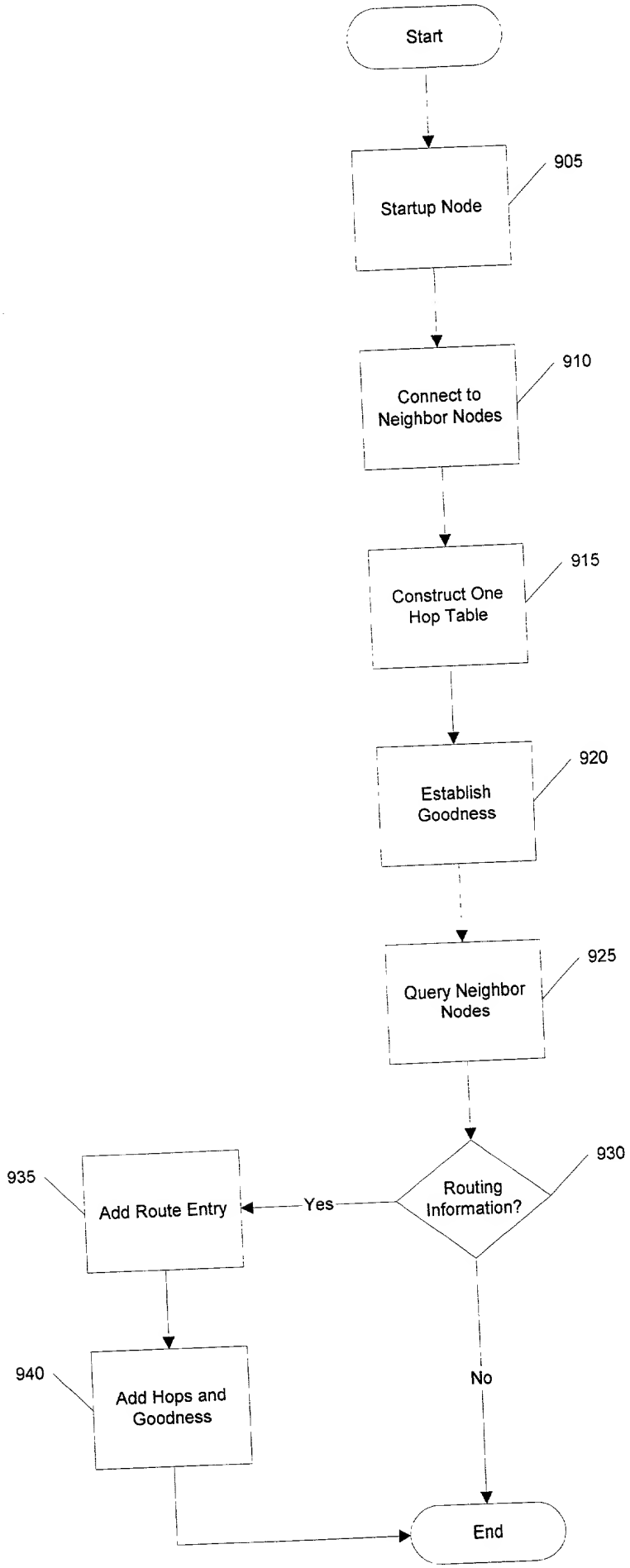

Start
900
Startup Node
905
Connect to Neighbor Nodes
910
Construct One Hop Table
915
Establish Goodness
920
Query Neighbor Nodes
925
Routing Information?
930
Yes
Add Route Entry
935
No
Add Hops and Goodness
940
End

Figure 9

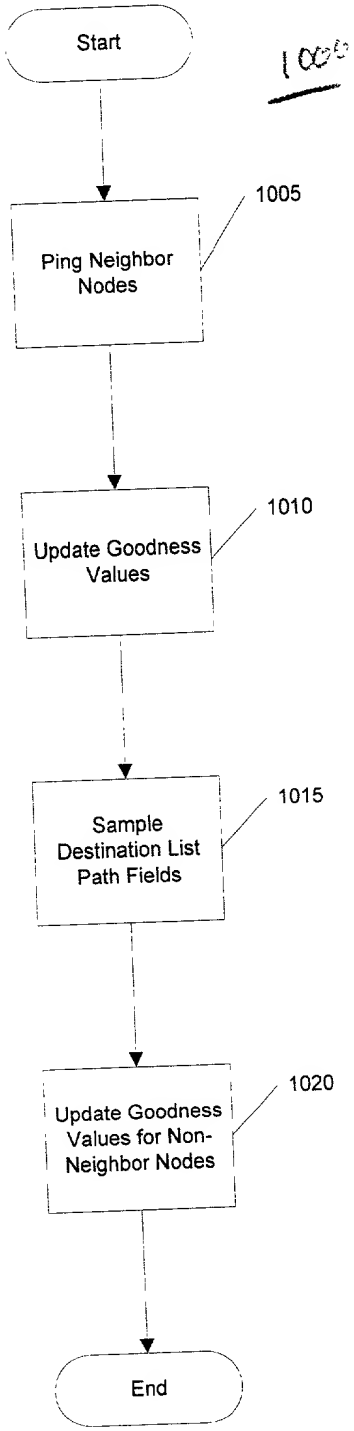

Start
1000
1005
Ping Neighbor Nodes
1010
Update Goodness Values
1015
Sample Destination List Path Fields
1020
Update Goodness Values for Non-Neighbor Nodes
End

Figure 10